

ABSTRACT

A process for producing superconducting cable consisting of at least one elongated superconducting element, containing a cable core, and a flexible tube enclosing the cable core, is described, this process comprising the following steps:

- (a) the cable core is drawn continuously from a supply unit;
- (b) a metal strip is drawn continuously from a strip supply unit;
- (c) the metal strip is shaped continuously around the cable core to form a slotted tube; the longitudinal slot is welded; and the welded tube is then corrugated, the inside diameter of the corrugated tube being greater than the outside diameter of the cable core;
- (d) the superconducting cable consisting of the cable core and the corrugated tube is wound up on a cable drum, or at least one turn of the superconducting cable has been run; and
- (e) finally, the ends of the cable core are joined mechanically to the ends of the corrugated tube while the cable is on the cable drum or after at least one turn of the cable has been run.